

## Product Overview

### MT9M001: CMOS Image Sensor, 1 MP, 1/2"

For complete documentation, see the data sheet.

ON Semiconductor's focus on pixel performance excellence provides the foundation for this sensor's exceptional image quality with superior color accuracy, low-light sensitivity, and low noise level. This cost-effective CMOS imaging solution enables high speed image capture capabilities, and includes variable functions, including gain, frame rate, and exposure while maintaining low power consumption.

#### Part Electrical Specifications

| Product             | Compliance  | Status | Type | Megapixels | Frame Rate (fps) | Optical Format | Shutter Type       | Pixel Size (µm) | Output Interface | Color | Package Type |
|---------------------|-------------|--------|------|------------|------------------|----------------|--------------------|-----------------|------------------|-------|--------------|
| MT9M001C12STC-DR    | Pb-free     | Active | CMOS | 1.3        | 30               | 1/2 inch       | Electronic Rolling | 5.2 x 5.2       | Parallel         | Mono  | CLCC-48      |
|                     | Halide free |        |      |            |                  |                |                    |                 |                  |       |              |
| MT9M001C12STC-TP    | Pb-free     | Active | CMOS | 1.3        | 30               | 1/2 inch       | Electronic Rolling | 5.2 x 5.2       | Parallel         | Mono  | CLCC-48      |
|                     | Halide free |        |      |            |                  |                |                    |                 |                  |       |              |
| MT9M001C12STM-DP    | Pb-free     | Active | CMOS | 1.3        | 30               | 1/2 inch       | Electronic Rolling | 5.2 x 5.2       | Parallel         | Mono  | CLCC-48      |
|                     | Halide free |        |      |            |                  |                |                    |                 |                  |       |              |
| MT9M001C12STM-DR    | Pb-free     | Active | CMOS | 1.3        | 30               | 1/2 inch       | Electronic Rolling | 5.2 x 5.2       | Parallel         | Mono  | CLCC-48      |
|                     | Halide free |        |      |            |                  |                |                    |                 |                  |       |              |
| MT9M001C12STM-DR1   | Pb-free     | Active | CMOS | 1.3        | 30               | 1/2 inch       | Electronic Rolling | 5.2 x 5.2       | Parallel         | Mono  | CLCC-48      |
|                     | Halide free |        |      |            |                  |                |                    |                 |                  |       |              |
| MT9M001C12STM-TH-DR | Pb-free     | Active | CMOS | 1.3        | 30               | 1/2 inch       | Electronic Rolling | 5.2 x 5.2       | Parallel         | Mono  | CLCC-48      |
|                     | Halide free |        |      |            |                  |                |                    |                 |                  |       |              |
| MT9M001C12STM-TP    | Pb-free     | Active | CMOS | 1.3        | 30               | 1/2 inch       | Electronic Rolling | 5.2 x 5.2       | Parallel         | Mono  | CLCC-48      |
|                     | Halide free |        |      |            |                  |                |                    |                 |                  |       |              |
| MT9M001C12STM-TR    | Pb-free     | Active | CMOS | 1.3        | 30               | 1/2 inch       | Electronic Rolling | 5.2 x 5.2       | Parallel         | Mono  | CLCC-48      |
|                     | Halide free |        |      |            |                  |                |                    |                 |                  |       |              |

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